

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for controlling a transmission capacity for allocating efficiently the transmission capacity on a wired line in every call in a data communication wherein said data communication relates to a mobile communication system in which data is transmitted in a wireless link and said wired line in accordance with a packet system, comprising the steps of:

measuring ~~an practical~~ a practical transmission speed of said data on said wireless link in said every call; said practical transmission speed being measured in a radio base station in radio communication with a mobile unit via said wireless link,

determining said transmission capacity that is required for transmitting said data at said practical transmission speed through said wired line at the minimum level in said every call as a target transmission capacity;

transmitting a transmission capacity demanding signal from said radio base station to a relay station and from said relay station to a mobile switching station;

in said mobile switching station, in response to said capacity demanding signal, decreasing a permissible transmission capacity of said wired line in the case where said permissible transmission capacity that is usable for transmission of said data through said wired line and determined in said every call is larger than said target transmission capacity; and

in said mobile switching station, in response to said capacity demanding signal, increasing the permissible transmission capacity of said wired line in the case where said permissible transmission capacity is smaller than said target transmission capacity;

whereby a transmission speed of said data in said wired line ~~being~~is controlled so as to be equal to or less than said permissible transmission capacity.

2. (Currently Amended) A method for controlling a transmission capacity for allocating efficiently the transmission capacity on a wired line in every call in a data communication wherein said data communication relates to a mobile communication system in which data is transmitted in a wireless link and said wired line in accordance with a packet system, comprising the steps of:

measuring ~~an practical~~a practical transmission speed of said data on said wireless link in said every call, said practical transmission speed being measured in a radio base station in radio communication with a mobile unit via said wireless link,;

determining said transmission capacity that is required for transmitting said data at said practical transmission speed through said wired line at the minimum level in said every call as a target transmission capacity;

transmitting a transmission capacity demanding signal from said radio base station to a relay station and from said relay station to a mobile switching station;

in said mobile switching station, in response to said capacity demanding signal, decreasing a permissible transmission capacity of said wired line in the case where a difference between said permissible transmission capacity usable for transmission of said data through said wired line, which is determined in said every call, and said target transmission capacity is smaller than a predetermined first threshold; and

in said mobile switching station, in response to said capacity demanding signal, increasing the permissible transmission capacity of said wired line in the case where a difference between said permissible transmission capacity and said target transmission capacity is larger than a predetermined second threshold;

whereby a transmission speed of said data in said wired line ~~being~~is controlled so as to be equal to or less than said permissible transmission capacity.

3. (Previously Presented) A method for controlling a transmission capacity as claimed in claim 1, wherein:

said permissible transmission capacity is periodically updated.

4. (Currently Amended) A mobile communication system implementing a data communication by transmitting data through a wireless link and a wired line in accordance with a packet system, wherein::

a practical transmission speed of said data in said wireless link is measured in every call, a transmission capacity required for transmitting said data of the practical transmission speed through said wired line at the minimum level is determined as a target transmission capacity in said every call, a transmission capacity demanding signal for decreasing a permissible transmission capacity of said wired line is transmitted in the case where said permissible transmission capacity usable for transmission of said data through said wired line and determined in said every call is larger than said target transmission capacity, and said transmission capacity demanding signal for increasing a permissible transmission capacity of said wired line is transmitted in the case where the permissible transmission capacity is smaller than said target transmission capacity; said mobile communication system further comprising:

a relay station wherein said transmission capacity demanding signal is received from a radio base station to change said permissible transmission capacity set up inside the base station in said every call to control the transmission speed of said data in said wired line so as to be equal to or less than said permissible capacity and at the same time, to transmit the transmission capacity demanding signal; and

a mobile switching station wherein said transmission capacity demanding signal is received from said relay station to change, in said every call, said permissible transmission capacity set up inside the station in said every call to control the transmission speed of said data in said wired line so as to be equal to or less than said permissible transmission capacity.

5. (Currently Amended) A mobile communication system implementing a data communication by transmitting data through a wireless link and a wired line in accordance with a packet system, wherein::

a practical transmission speed of said data in said wireless link is measured in every call, a transmission capacity required for transmitting said data of the practical transmission speed through said wired line at the minimum level is determined as a target transmission capacity in said every call, a transmission capacity demanding signal for decreasing a permissible transmission capacity of said wired line is transmitted in the case where a difference between said permissible transmission capacity usable for transmission of said data through said wired line, which is determined in said every call, and said target transmission capacity is ~~larger~~ smaller than a predetermined first threshold, and said transmission capacity demanding signal for increasing a permissible transmission capacity of said wired line is transmitted in the case where a difference between the permissible transmission capacity and said target transmission capacity is ~~smaller~~ larger than a predetermined second threshold; said mobile communication system further comprising:

a relay station wherein said transmission capacity demanding signal is received from a radio base station to change said permissible transmission capacity set up inside the station in said every call to control the transmission speed of said data in said wired line so as to be equal to or less than said permissible capacity and at the same time, to transmit the transmission capacity demanding signal; and

a mobile switching station wherein said transmission capacity demanding signal is received from said relay station to change said permissible transmission capacity set up inside

the station in said every call to control the transmission speed of said data in said wired line so as to be equal to or less than said permissible transmission capacity.

6. (Previously Presented) A mobile communication system as claimed in claim 4, wherein:

said radio base station measures periodically said transmission speed to determine said permissible transmission capacity, and transmits said transmission capacity demanding signal as occasion demands.

7. (Previously Presented) A method for controlling a transmission capacity as claimed in claim 4 , wherein:

said permissible transmission capacity is periodically updated.

8. (Previously Presented) A mobile communication system as claimed in claim 5, wherein:

said radio base station measures periodically said transmission speed to determine said permissible transmission capacity, and transmits said transmission capacity demanding signal as occasion demands.